



Ø BEAT



SEPTEMBER 1985

COLORADO SPRINGS,
COLORADO

FIFTY CENTS AN ISSUE / \$4 PER YEAR

Frank Drake - KL7IPV
4964 Harvest Rd.,
Colorado Springs, CO. 80917

FIRST CLASS MAIL



Ø BEAT



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ZERO BEAT is published monthly in the interest of the the members of the Pikes Peak Radio Amateur Association Inc., Colorado Springs, Colorado. Cost is 50¢ per month for non-members or a \$4.00 per year subscription. Permission is given to reprint articles or excerpts provided credit is given. Deadline for submission of articles is the 21st of the month. Classifieds accepted anytime.

The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 10 S. Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Frank Drake KL7IPV, 4964 Harvest Rd. Colorado Springs, CO 80917 597-2406

COMPUTER CORNER

FROM THE DESK OF YE OLDE EDITOR

The Volunteer Examiners conducted the first test to be given in the Colorado Springs area. There were eleven pre-registered applicants for the testing. All but one showed up and eight upgraded. The V.E.'s that conducted the tests were: Loren, KXØQ; Malcolm, KE9S; Bruce, KXØE; Pete, NØLA; Bill, KØQH; and Jake, NØCYR. Al, NØCMW and Jim, WA9ABB were there to assist and give directions to the testing site via radio. For a first time effort, Ye Olde Editor thought that the tests were well done and run rather smoothly. The PPRAA board had approved, via telephone polling, a small monetary amount to provide coffee and donuts to the applicants and V.E.'s. The day went well even though the outside temperature reached a meager 97 degrees!! (according to the bank across the street). Speaking for the PPRAA and as editor of the Zero Beat, I'd like to thank each and every one for a job well done and for the fine way that amateurs were represented at the test site. The next test date is tentative so will not be released until that date, and site, is confirmed. For further information on how to become a V.E. or help in the upcoming tests, contact Pete LaFosse at 495-4829 or via the 37/97 repeater.

CONGRATULATIONS TO NEW UPGRADES

Name	Call	New License
Charles Barentine	KAØUET	Technician
Jimmy Dean	KAØVFJ	Technician
Brian Holman	KAØUGI	Technician
Brad Moss	KAØVCN	Technician
Wayne Robertson	NDØBJV	Technician
Earl Barkley	KAØVWM	Technician
Paul Cavanaugh	NØBDP	Extra
Mike Johnson	KØØVD	Extra

Well, it is that time of the year again. Ye Olde Editor is going to throw the doors of his residence open once again. In the first week of October, Wednesday the 2nd, I will again conduct "classes" on amateur radio. These classes are very loose and are discussions about those things that we fret about and don't know who to ask. For those wishing to upgrade to another class license, this will help get you that new license. We will meet every Wednesday except the 2nd Wednesday of the month. That night we will adjourn to the regular club meeting. If you are not a club member, you are free to attend the sessions at my house and you will be very welcome at the club meeting although you are not required to go. See you there. If you have any questions, I can be called at 597-2406. 73,
Frank

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10 REM: THIS IS A PROGRAM THAT ALLOWS QSL/SWL PRINTOUTS AFTER
20 REM: ALL INFO IS ENTERED. IF REQUIRES THAT YOU ANSWER THE
30 REM: QUESTION CONCERNING THE REPORT BEFORE BODY OF THE REPORT
40 REM: IS COMPLETED. IT IS SIZED TO FIT ON A POSTCARD FOR MAILING.
   REM: THIS PROGRAM WRITTEN BY Francis J. Drake, Jr. - KL7IPV
60 REM: 4964 Harvest Rd., Colorado Springs, CO. 80917
70 REM: This program may be reproduced as long as credit is given.
80 REM: This program is not intended to be sold. April 6th, 1984.
90 POKE -17423,0
100 PRINT CHR$(26)
110 CLEAR 30000
120 X$=""
130 DIM A$(99)
140 INPUT "CALLSIGN?";A$:IF A$="NONE" OR A$="none" THEN GOTO 340
200 INPUT "GMT";B$
210 B$=" "
220 INPUT "DATE";C$
230 INPUT "BAND";D$
240 INPUT "RS/T";E$
250 INPUT "MODE - CW/SSB/QRP";F$
260 INPUT "TRANSCIVER TYPE";S$
270 INPUT "ANTENNA TYPE";T$
280 A$(1)=A$+X$+AA$+X$+B$+X$+C$+X$+D$+X$+E$+X$+F$+X$+S$+X$+T$+X$
290 PRINT CHR$(26)
300 PRINT FRE(2$)
310 I=1+1
320 PRINT" The number of QSL's to print is now ";I
330 GOTO 140
340 I=0
   INPUT" The number of QSL's to print?";P
   IF I=P THEN GOTO 740
370 LPRINT"      FRANCIS J. DRAKE Jr., * 4964 HARVEST Rd.,*
380 LPRINT:LPRINT:LPRINT
390 LPRINT"      COLORADO SPRINGS, CO. 80917"
400 B$=" ";K=1
410 FOR J=1 TO LEN(A$(1))
420 H$=MID$(A$(1),J,1)
430 IF H$(<>)X$ THEN G$=G$+H$: GOTO 550
440 ON K GOTO 450,460,470,480,490,500,510,520,530
450 A$=G$: GOTO 540
460 AA$=G$: GOTO 540
470 B$=G$: GOTO 540
480 C$=G$: GOTO 540
490 D$=G$: GOTO 540
500 E$=G$: GOTO 540
510 F$=G$: GOTO 540
520 S$=G$: GOTO 540
530 T$=G$: GOTO 540
540 G$=" "; K=K+1
550 NEXT J
560 LPRINT CHR$(30)CHR$(27)CHR$(77);CHR$(27)CHR$(69)
561 T=2
562 FOR T=1 TO T+2
563   FOR X = 1 TO 500
564     NEXT X
   PRINT CHR$(7)
566 NEXT T
567 PRINT" This card goes to";A$;" ."
570 INPUT"Is this a SWL Report";EE$
   CONTINUED ON NEXT PAGE

```

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The regular meeting of the Pikes Peak Radio Amateur Association was called to order at 7:30 p.m. August 14, 1985. There were 42 members and guests present. After introductions, the minutes were approved as printed in Ø-Beat. Les, KCØNC, reported the treasury had income of \$158.51 and expenses of 213.43 leaving a balance of \$1952.37.

In other committee reports, Ron, NKØP, reported no news from the interference committee. Mike, KØTER, reported that Field Day results were not sent in this year. The trailer committee indicated the trailer will be stored at NØLA's. Doc, WBØMCT, felt the amateurs did a good job on the Hill Climb and sent thanks to the amateur community for their support in making a successful event.

Frank, WØHWH, volunteered to try and take on the publicity chairmanship. Nothing new was the word from the bylaws committee and Oak, KØROL, reported on the CCARC meeting and swapfest in Glenwood Springs which was held July 27.

Novice classes will be beginning October 2nd and running on Tuesday and Thursday nights, 7-9 p.m., until November 21st. Classes will be held at North Junior High School (behind the Boy Scout Center on Unitah). Cost is \$2.00 to cover the expense of the room. Additional cost may be incurred if the book Tune in the World is purchased. At this time we are able to provide instruction, however, anyone willing to assist with either code or theory is more than welcome (any 'expert' guest speakers out there?). Contact Mark, NØEPF, at 473-1799. Additionally, we need the loan of a VHS or BETA video player. Please help your club continue to provide quality introductory education.

In other announcements, Malcolm, KE9S, informed us of a Computer Show scheduled for September 16-18 at the Clarion Hotel. Also, volunteers are needed to provide rain gauge measurements and other data to the weather bureau. Contact Malcolm or Bud, WBØTIB. Ron indicated there will be a Microwave Convention in Glenwood Springs in September. He thought it was the third weekend and will be checking.

Al indicated a need for help in figuring out the operation of a Robot-70 Slow Scan TV system--contact Al Vrooman.

After the break, Ken, WA6TTY, showed some slides and movies taken during the Hill Climb. Members then broke into small group discussions.

The next regular meeting will occur September 11th at Guiseppe's Depot.

Respectfully submitted,
Mark, NØEPF

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Richardson, NØEPF, 473-1799. You may
reach Mark on the 37/97 repeater during
the evenings, sometimes.

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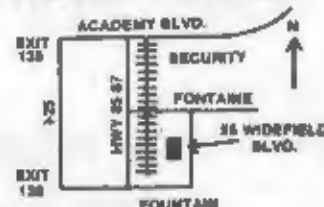
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The Board meeting of the Pikes Peak Radio Amateur Association was held in the home of Tom, AD8D, on August 19, 1985. Present were Tom; Les, KC8NC; Mark, NØEPF; Jim, WA9ABB; Frank, KL7IPV. Board members took a short tour of Tom's property before officially beginning the meeting.

Jim moved, Tom seconded to go to bulk rate mailing of Q-Beat as long as it is financially expedient. The motion passed unanimously.

Tom wondered if there was interest in group homebrew projects. Various items could be constructed for less than store cost. Several board members liked the idea. The membership at large should voice their opinion also.

Since many members are also FM Association members, it was suggested that it would be nice to get both groups involved together in more activities. The question of dual membership was also broached. There was concern over whether it was worth pursuing with the FM Association. The Board was quite split on the pros and cons of such a proposal.

Mark, NØEPF, announced this year's Enduro will be held October 6th. According to Mike, KØTER, this year's event will be a bit different and may even offer some excellent fringe benefits. Contact Mike for details or to volunteer.

One of the board members is looking into a program presentation for the September meeting. Hopefully the topic can be announced during one of the ARES nets.

There being no further business before the board, the meeting was adjourned. The next meeting will be September 16th at Jim's home.

Respectfully submitted,

Mark, NØEPF


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575 PRINT CHR$(28)
580 IF EE$="N" OR EE$="NO" OR EE$="n" OR EE$="no" THEN GOTO 610
585 INPUT "What is the call sign of the other station heard";AA$
590 LPRINT " This is to certify that";A$;" heard the"
600 GOTO 620
610 LPRINT " This is to certify that";A$;" established"
615 AA$="KL7IPV"
620 LPRINT "two way communications with radio station ";AA$
630 LPRINT "on";D$;"MHz at";B$;" GMT,";C$;". Your/his";F$
640 LPRINT "signals were logged: RS/T";E$;". XCVR here is";S$
650 LPRINT "running 100 watts output. Antenna is:";T$
660 LPRINT " This confirmation is sent to you as a token of"
670 LPRINT "friendship and fraternity from your brother operator."
680 LPRINT "10-X #25520 IPA #18022 NOR'E #94FS Ak. Iditarod #42C
690 LPRINT " Pls QSL Tnx 73, FRANK"
700 LPRINT:LPRINT
710 IF K=P THEN GOTO 740
720 IF PEEK(-17423)=>50 THEN GOTO 760
730 I=I+1: GOTO 360
740 LPRINT CHR$(11):END
750 END
760 LPRINT CHR$(11): GOTO 730

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BEAM WIND RESISTANCE REVISITED

The thoughtful article on Beam Wind Resistance by Marvin Mahre, W0MGI provides interesting information on locating the beam position during high wind conditions, namely pointing the beam to a direction that is perpendicular to the wind direction.

This is good advice, and since the prevailing wind direction in our area is from the Northwest, it calls for leaving the Beam pointed either Southwest or Northeast during periods of nonuse. However what was left unsaid in the article may be as important, as what was covered. Since the airmasses that cause our weather and most of the winds of importance to Beam protection are rotating in a circular pattern, the antenna may be subjected to winds from any direction depending on the location of the air-mass. Therefore, unless the beam position is located by an "active device" (one that monitors wind direction and automatically turns the beam so that the beam is sideways or perpendicular to the wind direction) the old same rule applies - the beam, the tower and the rotor brake must all be able to withstand adverse winds at the highest velocity likely in our area.



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SECTION MANAGER

William "Bill" Sheffield, KQØJ
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Denver, Colorado 80220

~~QST~~
OFFICIAL JOURNAL

VE TEST SCHEDULE

<u>DATE</u>	<u>LOCATION & Sponser</u>	<u>CONTACT</u>
Aug 17,85	Mile Hi Ve Team Lakewood, Colorado	WØIJR
Aug 24,85	Greeley ARC Ames Jr. College, Greeley	KØØJ
Sept 7,85	Pueblo ARC Pueblo, Colorado	WBØYES
Sept 21,85	Mile Hi Ve Team Lakewood, Colorado	WØIJR
Sept 22,85	Barcfest Swapfest Boulder VE Team	NØBWS
Sept - May 1985	ARA Ham Radio School 16th & Kingston, Aurora Novice Testing every Thursday evening. Schedule of VE Tests by the School to be announced.	KQØJ

To schedule for a VE Test, please send a completed 610 form w/copy of your license and a check made payable to "ARRL-VEC" in the amount of \$4.00, to the CONTACT person. Walkins are accepted at the discretion of each VE Team according to the paperwork and the size of their facility. To guarantee a reserved seating at a test session all paperwork should be sent to the CONTACT person 30 days in advance of test.

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RAMBLINGS

FROM AROUND THE WORLD OF AMATEUR RADIO

12-12 WORLDWIDE

12-12 Worldwide is now active on 12 meters. It is a non-profit entity for promoting activity and, most important, good operating practices on the new 12 meter band.

12-12 Worldwide is also working on getting new countries on the band and other activities of interest to 12 meter amateurs.

Charter membership will be available for the first twelve months after the band opening (until June 1986). The station must make an on the air contact with a 12-12 director or an official membership station. After the first twelve months, stations will need to contact twelve members before requesting their lifetime number.

During charter membership months, amateurs may get their number by joining the 12-12, also.

Dues paying members will receive a membership certificate and a quarterly newsletter starting in the fall of 1985. They will also be eligible to participate in receiving 12-12 awards.

The awards at this time are: Worked All States 12-12 and Worked 12 Countries. Other awards will follow.

Annual dues are \$4 per year. Send your dues and number request to:

12-12 Worldwide, Steve Walz, WA5UTO
Box 222, Cherokee, OK 73728
Or call (405) 594-3487

Licensing activity for April and May, 1985: New Novices = 1,943 and 1,980; total all new = 2,843 and 2,174; Upgrade to Tech. 498 and 1,827; Upgrade to General = 413 and 777; Upgrade to Advanced = 306 and 643; Upgrade to Extra = 217 and 347; Total upgrades = 1,434 and 2,794.

MISS AMERICA PAGEANT

The Southern Counties ARA will operate K2BR on September 10-14 from the Miss America Pageant, Atlantic City, New Jersey.

Frequencies will be: Phone - 25 KHz inside General Class phone bands; CW - 65 KHz up from the lower band edges; Novices - 7.125 & 21.250 MHz.

QSL with SASE via SCARA, Box 121,
Linwood, NJ 08221.

AMATEUR RADIO CALL SIGNS

As of July 1, 1985 the following call signs were issued for the 8 call area:

Extra = NM0E; Advanced = KD8YM; Gen/Tech. = N8GHE; Novice = KA8VBV.

On Volunteering

The Amateur Radio Service depends upon volunteers for all our attempts to promote our hobby and provide a public service. Nobody has ever paid any of us for the hours of free labor to this club and its hobby. Volunteering is a lovingly cherished tradition, a tradition which, if it did not exist would signal an end to our hobby, as we know it.

Dr. Tom Comstock, N5TC, Vice Director of the West Gulf Division of the ARRL, addressed the issue of Volunteering in a recent issue of the "Field Forum", a League newsletter distributed to ARRL Volunteers throughout the USA. He asserts that recent research has concluded that:

- 1) A leader's expectations and the way volunteers are treated directly determines how those volunteers perform.
- 2) People work more effectively and productively if they are treated with respect, concern and interest.
- 3) If a leader sets feasible high performance standards, volunteers generally will meet or exceed them. In other words, it is essential that clear objectives be set.

To quote Dr. Comstock, "Some people are like wheelbarrows, they have to be pushed. Some are like kites, they will fly away if you don't put a string on them. Others are like footballs, you never know which way they will bounce. Some are like trailers, they have to be pulled. Still others are like balloons, always ready to blow up.

As a general rule, volunteers are best handled in that grey area somewhere between the democratic and participative styles of leadership (leaning in the direction of the participative). That's because most amateurs are highly individualistic.

When volunteers are used, they should be made to feel that their services are worthwhile and appreciated. Nothing is more frustrating than to volunteer for a public service event and get there to



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BRING YOUR EQUIPMENT TO TRADE — LET'S TALK!

 If you are interested in knowing what and where the repeaters are in New Mexico, I have a complete listing that was published in the Scanner for July. See me at the next meeting.

The regularly scheduled meeting of the Pikes Peak Radio Amateur Association will be held on September 11th at 7:30PM at Giuseppe's Depot located at #10 S. Sierra St. At this time the program topic is unknown. If you have any questions about our hobby and can't find the answer, bring the question to the meeting and ask it. We might all learn a little from the ensuing discussion.

This space coulda been yours!

WORLDRADIO NEWS continued
 waste time in an unimportant capacity. Or worse, do important work and not feel you are appreciated.

 WARNING ABOUT COMPUTERS

For those who are hams, CB'ers and marine radio operators and who use computers, I have a sad story to tell and also a warning about the use and location of computers.

I was given a VIC 28 computer, and I thought it would be a good idea to set it up on my operating desk next to my radio transceiver, and by using the computer and the monitor I program QSLs and net information into the computer. This, I thought, would be a big help to me with my Amateur Radio operating, but the sad part of this story is that the radio frequency energy from the transceiver ruined the computer the first time it was turned on.

I am very sorry to lose the computer. I'd like to pass along this experience to all hams CB'ers and marine radio operators in hope they don't make the same mistake I did.

Check with the computer manufacturer and find out how close you can install the computer to the transceiver. I wish I had done this before I placed my computer near the transceiver, thereby ruining it, once and for all.

Kenneth Hand, WB2EUF
 East Hampton, N.Y.

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Icom 743 \$765.
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Kenwood TS 520 w/CW filter-no mike \$395.
Icom 745-nice condition \$625.
BTL 400A 400 W PEP 6 meter amp \$265.
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